

# TRANS TECH CONSULTANTS

Environmental Compliance Services Engineers • Geologists • Architects License # 697833 (A-Haz)

November 22, 2005 Job No. 3034.01

Mr. Al Steer North Coast Unified Air Quality Management District 2300 Myrtle Avenue Eureka, California 95501

Subject:

Facility Summary Application for Authority to Construct Permit Form 1300

Vapor Extraction Unit Discharge Permitting

524 Main Street, Ferndale, California

Dear Mr. Steer,

I have enclosed pertinent documents relative to the proposed vapor extraction project. I have enclosed documents and a blank check for the permit fee.

I will contact you Monday to go over the permit application. I appreciate your assistance in this matter. This project is the same project that I contacted you on relative to a vapor extraction pilot test.

Please do not hesitate to contact me if you have any questions,

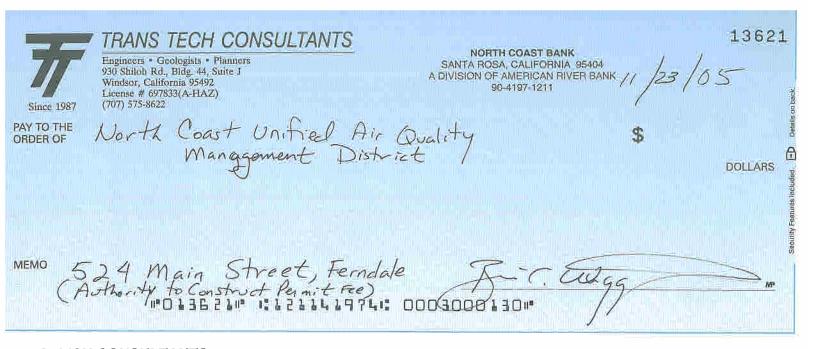
Sincerely,

Trans Tech Consultants

Bill C. Wiggins, P.E

President

enclosures:



**RANS TECH CONSULTANTS** 

13621

Al - I did not know what to make the permit

out fee Should be, so I am Sending the blank check.

I hope you don't mine!

Please fill in Amount & e-mail me or call with

amount & any questions

bill wiggins & transtechconsultanto.com

(70)575-8622, (707) 478-2097 - cell.

Thank you, Buil

**RANS TECH CONSULTANTS** 

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11/14/2005 10:01

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NC AIR QUALITYTY MAN



North Coast Unified Air Quality Management District 2300 Myrtle Avenue Eureka, CA 95501 (707) 443-3093

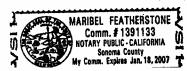
### **FACILITY SUMMARY APPLICATION FOR AUTHORITY TO CONSTRUCT PERMIT FORM 1300**

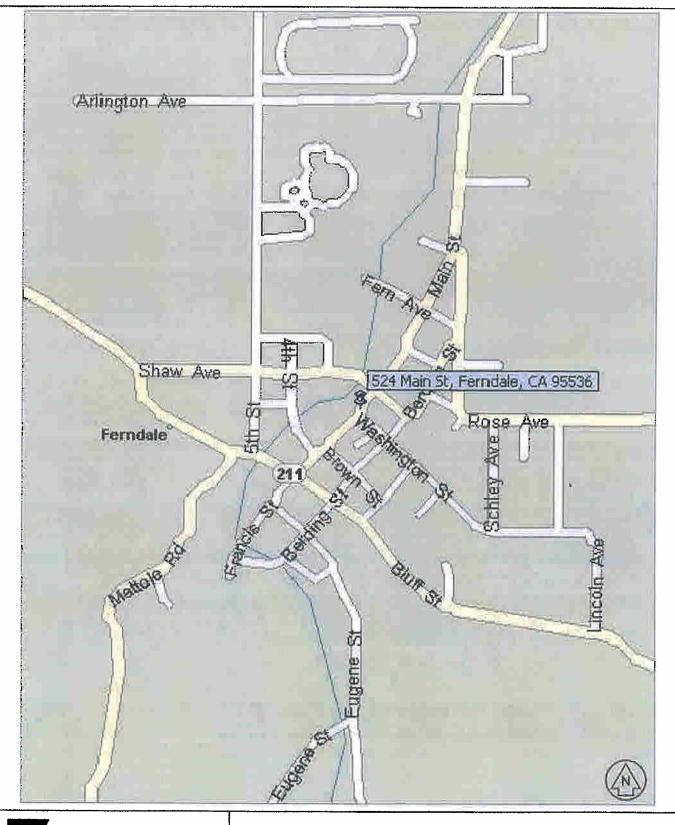
This form must be accompanied by one or more 13XX series form(s)

Section I Company Information								
Legal name of owner/operator Tipple Motors								
Company mailing address 524 Main Street, Ferndale California 95536								
Permit mailing address, if different from company mailing address 430 (Same)								
Contact person Bill C. Wiggins Title President - Trans Tech								
Contact person's phone number	Contact person's fax num	ber		n's email address				
(201) 575-8622	703 837 733 4		Billw 1951	ns a transtech				
Are you the owner of the equipment und	er this application? Dyes	no 🗆 no		Consultants. Co.				
If no, enter the legal name and owner:								
Section II Facility Information Facility name:								
- 40		erndale	<i></i>	.A-3/				
	n Street, to	indsor,	la. 90.	356				
Type of business at this address	Primary Standard Industr	· · ·	-	Number of employees at this facility:				
	(Internet search: http://v	vww.osna.gov/csn	istats/sicsef.num Thatashisisishish	11) 1 NEW 2018 AND 12 TO AND THE CASSESS				
Section III - Facility Location			<b>以是一种的一种。</b>					
Detailed driving directions from nearest	•	germ /						
Facility is (distance) miles	(direction) of	ternda	ie	(nearest town)				
Status of land at facility (check one):	private 🛘 Indian 🗘 go	vernment						
Name of nearest Class 1 area to the facil	ity (see map attached): 🖵	actura						
Is your facility boundary within 10 km o	f the boundary of nearest C	lass 1 area? (see	map) 🗆 yes	s 🔀 no				
Distance to the nearest: occupied reside	nce or business	K-12 school	01					
Is emission generating equipment within	<del>* * * * * * * * * * * * * * * * * * * </del>	ndary of a school	7 🗆 yes 🔭	no				
• If yes, complete for all public or priva	te schools, grade K-12, wit	hin a ¼ mile radii	as of facility pro	operty:				
School name(s):	Phone no(s):		_ Address(es) _					
Section IV - Facility Status								
This application is for (see instructions):								
New construction								
Estimated construction start date 12 / 01 / 05 Estimated construction completion date: 12 / 05 / 05 / 05 / 05 / 05 / 05 / 05 / 0								
Does this facility have an AQMD permit? \(\Pi\) yes \(\Pi\) If yes, the permit number is:								
Does this facility have a Title V permit?	yes no	If yes, the permi	t number is:					
Is this a "major source" under Title V of the federal Clean Air Act? (AQMD Regulation 5, Rule 300) 🗆 yes 🗓 no 🗀 unsure								
Is this source subject to a federal NSPS or NESHAP/MACT? (AQMD Regulation 1, Rule 490 or 492) uses unsure								
• If yes, which one(s)?								
Is this a significant net increase in emissions? (AQMD Regulation 1, Rule 220(b)) upcs unsure								
If yes or unsure to the above three questions, contact the AQMD to see if a pre-application meeting is required.								
Is this application in response to a Notice of Noncompliance (NON)? Dyes Dno If yes, NON date: tracking#								
Does this facility emit any substance listed pursuant to Section 44321 of the Health and Safety Code?  yes no If yes, fill out Section VIII. (These substances are listed in the California OEHHA Air Toxic Hot Spots Program Guidance Manual								
for Preparation of Health Risk Assessmen								
http://www.ochha.ca.gov/air/hot_spots/pdf/HRAguidefinal.pdf)								
AQMITUSE TRACKING #	SIC/SCC CODES	PERMIT REVIEW		ENFORCEMENT REVIEW				
FEE SCHEDULE:	CHECK/MONEY ORDI	R	۸	MOUNT				

PAGE 03/09

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For this project, has a California Environmental Quality Act (CEQA) document been required by another governmental agency? In our part of the project, has a California Environmental Quality Act (CEQA) document been required by another governmental agency? In our part of the project, has a California Environmental Quality Act (CEQA) document been required by another governmental agency? In our part of the project, has a California Environmental Quality Act (CEQA) document been required by another governmental agency?										
Are th	ere any tra	de secrets	asked by this app	lication that you	don't want	to revea	ıl? 🗆 yes 🗓 n	0		
(If yes, attach documentation to describe and support your claim)										
This question must be answered for all applications for new construction or significant modifications. Are all major sources under same ownership in California in compliance with Federal, state, and local air pollution control rules?  No										
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			bustion Equipme				09 ● Aggregate	Plant		
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Section VI—Certification  I hereby certify that all information and data contained in this application and all information submitted with this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.  Signed this 15 day of										
Upon	my oath o	r affirmatio	on, before a notar	of the state of_	Cal	ston	nia	•		
Signa	ture of res		official of firm:			Title	of responsible of		71	1 4
Signature of responsible official of firm:  Title of responsible official of firm:  President Trans Tech Cons Han:										
Type	or print na	me of respo	onsible official of	firm:		_	sible official's ph		Date signed:	والمستوال فالمال
\$111 C. wiggins 600) 575-8622 11/15/05										
I hereby certify that all information and data contained in this application and all information submitted with this application are true										
and as accurate as possible, to the best of my knowledge and professional expertise and experience.										
Signed this 15 day of November ,2005,										
Upon my oath or affirmation, before a notary of the state of										
Signature of preparer, if prepared by person other than responsible official of firm:										
Title of preparer:										
Type	or print par	me of over	arer, if prepared b	v person other t	han	Prena-	r's telephone nur	nher	Date signed:	
		ial of firm:		y politon union t		( )		iiiooj	/ 1/	
Scribed and sworn before me on this / 5 1/2 day of NOVEMBER, 2005.										
My authorization as a notary of the state of CALINORNIA expires on the 18 day of										
Notary's signature:										







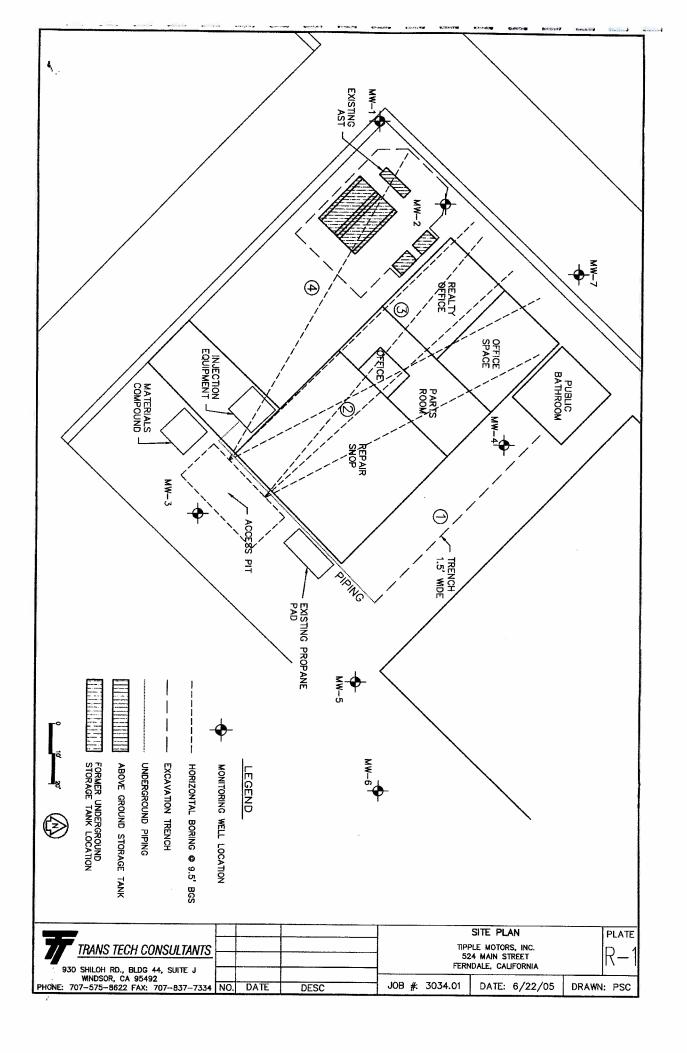
930 SHILOH RD., BLDG 44, SUITE J WINDSOR, CA 95492 PHONE: 707-575-8822 FAX: 707-837-7334

## SITE LOCATION MAP

TIPPLE MOTORS 524 MAIN STREET FERNDALE, CALIFORNIA

PLATE:

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	3034.01 SLM	CLS	3034.01	A-264		8/13/04
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#### **Extraction**

Potential extraction activities include dual phase (soil vapor and groundwater combined) or single phase (soil vapor or groundwater individually) extraction.

Dual phase extraction would occur where an extraction line is partially in groundwater or is very close to the capillary fringe. Utilizing vacuum as a driving force, the aspirated groundwater/vapor flow is extracted from the ground into a separation tank. The liquid phase is pumped from the bottom of the separation tank either directly to treatment or into a holding tank. The vapor phase passes from the top of the separation tank to treatment and then atmospheric discharge.

Where an extraction line is completely immersed, groundwater can be extracted utilizing vacuum as a driving force. The flow is directed into a vacuum tank containing a pump, which transfers the flow to treatment or a holding tank.

Soil vapor alone is extracted from lines completely within the vadose zone. Soil vapor extraction is accomplished by connecting the extraction line to a positive displacement vacuum pump.

#### **Treatment**

In this Section proposed methods for treating contaminated soil vapor and groundwater are presented.

### **Contaminated Vapor Abatement**

Two alternatives are considered for soil vapor treatment: Thermal oxidation and activated carbon adsorption. Both technologies are applicable at the site based on technical and regulatory considerations. The deciding factor is cost. Thermal oxidation is more economical as the flow rate and volatile loading increases. Activated carbon adsorption is more economical if the volatile extraction rate is low.

It is anticipated that thermal oxidation will be more economical in the early stages of remediation. At some point, volatile loading will decline to a level where activated carbon is more economical.

It is proposed to utilize activated carbon for soil vapor treatment during the start-up phase of the interim remedial program. Based on flow rate and volatile loading data collected during start-up, a decision to specify and install thermal oxidation capability will be made.

Note: The actual loading will be verified at start-up.
Two carbon commisters will be utilized in
Series for initial Start-up.